

Oil-Immersed Power Transformer

This oil-immersed power transformer is designed for efficient voltage transformation in transmission and distribution networks. It features cooling fins for effective heat dissipation, ensuring reliable operation under heavy loads.



Overview

S11-M Series Oil-Immersed Transformer

The S11-M series is a high-efficiency, sealed oil-immersed power transformer designed for reliable performance in transmission and distribution networks. This environment-friendly unit features a fully sealed structure with vacuum oil filling, ensuring high insulation stability and maintenance-free operation. Its compact design utilizes corrugated oil tank walls for effective heat radiation, eliminating the need for an external oil storage box and saving valuable installation space.

Key Features

Performance Benefits

- Compact design with strong overload capacity
- Reduced no-load loss (approx. 30% lower than S9 series)
- Low noise operation and low temperature rise
- Maintenance-free, fully sealed structure
- Integrated oil level gauge for safety monitoring

Compliance Standards

GB1094.1-2013, GB1094.2-2013, GB/T6451-2008, GB1094.3-2003, GB1094.5-2008

Technical Specifications

Technical parameters

| Model | Rated Capacity (kVA) | Rated Voltage | | | Connection | No-load loss | | |
|------------------|----------------------|---------------|---------------|-----|--------------|--------------|-------|-----|
| | | HV | Tapping range | LV | | (W) | (VA) | (W) |
| S11-M(R)-30/10 | 30 | 10 | ±2.5% | 0.4 | Yd11 or Yyn0 | 100 | 630 | 2.1 |
| S11-M(R)-50/10 | 50 | 10 | ±2.5% | 0.4 | Yd11 or Yyn0 | 150 | 910 | 2.0 |
| S11-M(R)-80/10 | 80 | 10 | ±2.5% | 0.4 | Yd11 or Yyn0 | 180 | 1310 | 1.8 |
| S11-M(R)-100/10 | 100 | 10 | ±2.5% | 0.4 | Yd11 or Yyn0 | 200 | 1560 | 1.6 |
| S11-M(R)-125/10 | 125 | 10 | ±2.5% | 0.4 | Yd11 or Yyn0 | 220 | 1890 | 1.5 |
| S11-M(R)-160/10 | 160 | 10 | ±2.5% | 0.4 | Yd11 or Yyn0 | 270 | 2310 | 1.4 |
| S11-M(R)-200/10 | 200 | 10 | ±2.5% | 0.4 | Yd11 or Yyn0 | 330 | 2730 | 1.3 |
| S11-M(R)-250/10 | 250 | 10 | ±2.5% | 0.4 | Yd11 or Yyn0 | 400 | 3200 | 1.2 |
| S11-M(R)-315/10 | 315 | 10 | ±2.5% | 0.4 | Yd11 or Yyn0 | 480 | 3830 | 1.1 |
| S11-M(R)-400/10 | 400 | 10 | ±2.5% | 0.4 | Yd11 or Yyn0 | 570 | 4620 | 1.0 |
| S11-M(R)-500/10 | 500 | 10 | ±2.5% | 0.4 | Yd11 or Yyn0 | 680 | 5410 | 1.0 |
| S11-M(R)-630/10 | 630 | 10 | ±2.5% | 0.4 | Yd11 or Yyn0 | 810 | 6200 | 0.9 |
| S11-M(R)-800/10 | 800 | 10 | ±2.5% | 0.4 | Yd11 or Yyn0 | 980 | 7600 | 0.8 |
| S11-M(R)-1000/10 | 1000 | 10 | ±2.5% | 0.4 | Yd11 or Yyn0 | 1150 | 10300 | 0.7 |
| S11-M(R)-1250/10 | 1250 | 10 | ±2.5% | 0.4 | Yd11 or Yyn0 | 1380 | 12000 | 0.6 |
| S11-M(R)-1600/10 | 1600 | 10 | ±2.5% | 0.4 | Yd11 or Yyn0 | 1640 | 14500 | 0.6 |
| S11-M(R)-2000/10 | 2000 | 10 | ±2.5% | 0.4 | Yd11 or Yyn0 | 1950 | 17400 | 0.5 |
| S11-M(R)-2500/10 | 2500 | 10 | ±2.5% | 0.4 | Yd11 or Yyn0 | 2300 | 20240 | 0.4 |

Note: All the dimension and weight is for reference only.

Detailed technical parameters and loss data for the S11-M(R) series.

Technical parameters

| Model | Rated Capacity (MVA) | Rated Voltage | | | Connection | No-load loss | | |
|---------------|----------------------|-------------------|---------------------------------|------------------|------------|--------------|------|------|
| | | High voltage (kV) | Tapping range (kV) | Low voltage (kV) | | (W) | (VA) | (W) |
| SZ11-2000/35 | 2000 | 35 | ±3+2.5% or ±4+2.5% or ±13+1.25% | 6.3 | Yd11 | 230 | 1924 | 1.00 |
| SZ11-2500/35 | 2500 | 35 | ±3+2.5% or ±4+2.5% or ±13+1.25% | 6.3 | Yd11 | 272 | 2064 | 1.00 |
| SZ11-3150/35 | 3150 | 35 | ±3+2.5% or ±4+2.5% or ±13+1.25% | 6.3 | Yd11 | 323 | 2471 | 0.90 |
| SZ11-4000/35 | 4000 | 35 | ±3+2.5% or ±4+2.5% or ±13+1.25% | 6.3 | Yd11 | 387 | 2916 | 0.90 |
| SZ11-5000/35 | 5000 | 35 | ±3+2.5% or ±4+2.5% or ±13+1.25% | 6.3 | Yd11 | 464 | 3420 | 0.85 |
| SZ11-6300/35 | 6300 | 35 | ±3+2.5% or ±4+2.5% or ±13+1.25% | 6.3 | Yd11 | 563 | 3977 | 0.85 |
| SZ11-8000/35 | 8000 | 35 | ±3+2.5% or ±4+2.5% or ±13+1.25% | 6.3 | Yd11 | 707 | 4651 | 0.75 |
| SZ11-10000/35 | 10000 | 35 | ±3+2.5% or ±4+2.5% or ±13+1.25% | 6.3 | Yd11 | 928 | 4805 | 0.75 |
| SZ11-12500/35 | 12500 | 35 | ±3+2.5% or ±4+2.5% or ±13+1.25% | 6.3 | Yd11 | 1094 | 5686 | 0.70 |
| SZ11-16000/35 | 16000 | 35 | ±3+2.5% or ±4+2.5% or ±13+1.25% | 6.3 | Yd11 | 1317 | 7032 | 0.60 |
| SZ11-20000/35 | 20000 | 35 | ±3+2.5% or ±4+2.5% or ±13+1.25% | 6.3 | Yd11 | 1557 | 8278 | 0.50 |

Note:
1. When the gauge is horizontal, it is only one value.
2. All the dimension and weight is for reference only.

Technical specifications for the SZ11 series, covering capacities from 2000 to 20000 kVA.

S11-M(R) Technical Parameters

| Model | Capacity (kVA) | No-load Loss (W) | On-load Loss (W) |
|------------------|----------------|------------------|------------------|
| S11-M(R)-30/10 | 30 | 100 | 630 |
| S11-M(R)-100/10 | 100 | 200 | 1580 |
| S11-M(R)-250/10 | 250 | 400 | 3200 |
| S11-M(R)-630/10 | 630 | 810 | 6200 |
| S11-M(R)-1000/10 | 1000 | 1150 | 10300 |
| S11-M(R)-2500/10 | 2500 | 2300 | 20240 |

Voltage Ratings

10 kV

High Voltage (HV)

0.4 kV

Low Voltage (LV)